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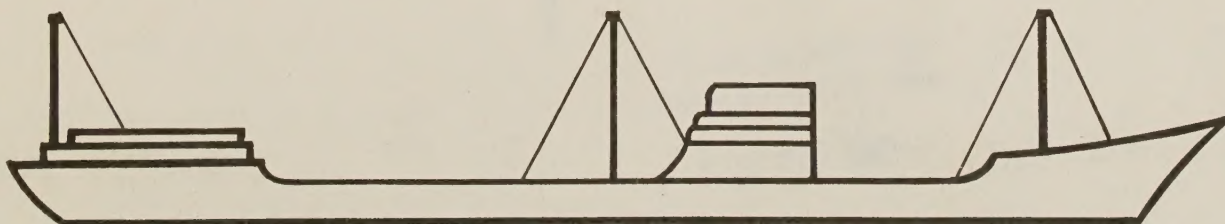
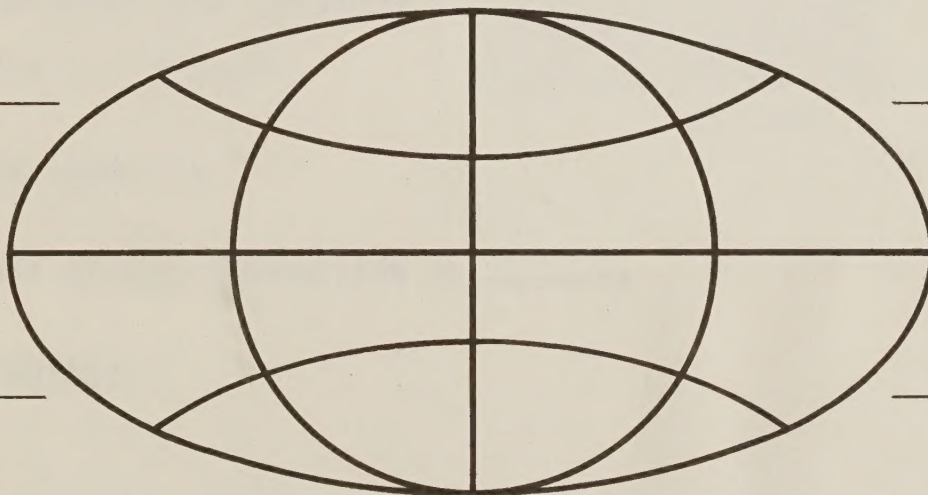
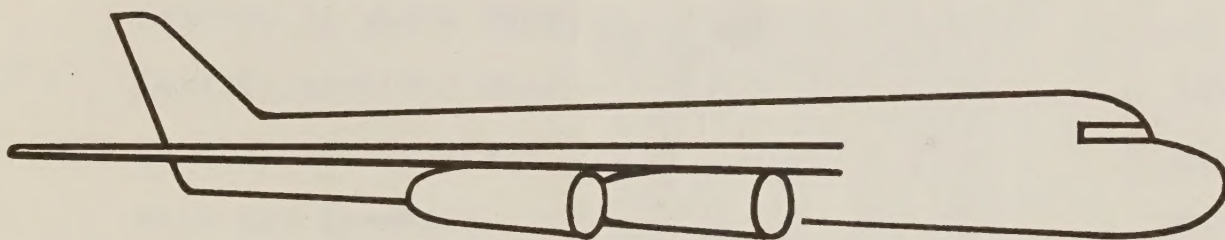
Office of
Transportation

June 1982

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International Livestock Transportation Directory



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INTRODUCTION

In 1981, the U.S. exported approximately 400,000 head of live animals with a corresponding value of \$204 million.

The United States has the largest pool of healthy genetic material in the world. Accordingly, U.S. livestock is in demand for breeding purposes as well as for consumption. The breakdown of our livestock exports is as follows: cattle, 22 percent; horses, 17 percent; swine, 6 percent; and sheep and goats, 55 percent. While Canada and Mexico import about 75 percent of U.S. live animals, U.S. exports to the Far East, Middle East, and South America continue to grow (see charts on major markets for livestock exports, pages 2 and 3). This growing global demand for live animals is increasing the need for reliable, efficient, and economic transportation services.

Since transportation costs are usually the largest marketing costs for producers of live animals, exporters need to obtain timely information concerning carrier services. Moreover, adequate transportation and related services are vital to the ability of the United States to meet the growing global demand for livestock. In this vein, the Office of Transportation and Veterinary Services of the Food Safety and Inspection Service have cooperated in the preparation of this directory. It should serve as a ready reference of the transportation services available to U.S. livestock exporters by air and ocean carriers. The information is based on data collected as of January 1, 1982.

The listing of any firm in this publication does not constitute an official endorsement or approval by USDA of any service, nor does it assign any preference to the exclusion of any others not listed. This directory has focused on those firms primarily involved in the transport of livestock.

There are several new items in this updated version of the directory. These items include the major markets for U.S. exports of live animals (pages 2 and 3) and the recommended floor area allowed for animals transported by air, sea, truck, or rail (pages 47 and 48). The latter information was compiled by the Office of Transportation's Research and Packaging Branch.

The Office of Transportation is grateful to everyone who contributed to the assembly and publication of this directory. Persons who have questions regarding its content may call (202) 447-7481.

Thomas M. Poerstel, Chief
International Transportation Services
Branch
Office of Transportation

MAJOR MARKETS FOR U.S. EXPORTS OF LIVE ANIMALS

Quantity and Value of U.S. Exports by Commodity and Country of Destination for 1980 and 1981

Total Cattle

Country of Destination	<u>Quantity</u>		<u>Value</u>	
	<u>1980</u>	<u>1981</u>	<u>1980</u>	<u>1981</u>
	--head--		--dollars--	
Canada	39,286	44,550	22,021,487	22,609,149
Mexico	13,762	28,268	11,806,505	21,955,206
Japan	4,733	4,814	7,094,415	4,801,274
Korea, Republic of	1,972	2,348	2,877,765	2,007,247
Chile	60	913	58,448	1,161,976
Saudi Arabia	0	822	0	2,297,805
Venezuela	286	793	413,100	1,018,563
Colombia	689	707	904,215	973,803
Argentina	261	558	985,164	1,081,601
Trinidad-Tobago	1,000	514	1,087,674	545,068
Other	<u>3,522</u>	<u>3,531</u>	<u>7,317,508</u>	<u>7,015,272</u>
Total	65,571	87,818	54,566,281	65,466,964

Total Sheep

Country of Destination	<u>Quantity</u>		<u>Value</u>	
	<u>1980</u>	<u>1981</u>	<u>1980</u>	<u>1981</u>
	--head--		--dollars--	
Mexico	97,286	197,289	3,878,087	7,851,746
Canada	24,420	22,207	831,405	1,027,405
Taiwan	305	877	5,400	100,420
Egypt	0	214	0	29,500
Japan	0	128	0	21,950
Other	<u>1,510</u>	<u>167</u>	<u>370,220</u>	<u>37,145</u>
Total	123,521	220,882	5,085,112	9,068,166

Country of Destination	<u>Total Horses</u>		<u>Value</u>	
	<u>Quantity</u>		<u>Value</u>	
	<u>1980</u>	<u>1981</u>	<u>1980</u>	<u>1981</u>
	--head--		--dollars--	
Canada	21,212	58,786	8,520,051	9,235,772
Mexico	620	3,661	923,056	2,469,032
Japan	961	1,327	6,518,575	7,698,499
Venezuela	442	868	862,674	2,252,703
United Kingdom	565	613	31,923,082	50,345,923
France	447	310	22,586,981	20,612,808
Paraguay	59	197	531,338	378,250
Italy	79	157	1,028,693	1,771,716
Colombia	167	140	323,670	271,370
Ireland	92	108	10,974,008	15,220,625
Other	<u>1,008</u>	<u>733</u>	<u>12,176,682</u>	<u>9,787,025</u>
Total	25,652	66,900	96,368,810	120,043,723

Country of Destination	<u>Total Swine</u>		<u>Value</u>	
	<u>Quantity</u>		<u>Value</u>	
	<u>1980</u>	<u>1981</u>	<u>1980</u>	<u>1981</u>
	--head--		--dollars--	
Mexico	2,339	12,826	691,253	3,623,566
Venezuela	4,153	2,877	1,091,103	736,534
Taiwan	2,270	1,216	823,918	1,167,625
Japan	1,469	1,096	1,566,250	986,302
Ecuador	393	1,055	84,410	411,609
Dominican Republic	319	1,012	100,000	294,292
Philippines	176	862	50,160	305,064
Canada	526	772	150,657	187,622
Singapore	543	395	249,257	255,727
Peoples Republic of China	0	353	0	268,000
Other	<u>4,103</u>	<u>1,660</u>	<u>1,925,430</u>	<u>889,356</u>
Total	16,291	24,124	6,732,438	9,125,697

Source: Foreign Agricultural Service, USDA

AIR CARRIERS

Approximately 90 percent of all livestock exports, excluding movements to Canada and Mexico, are transported by air. The following pages list airline companies that charter aircraft to carry livestock and have furnished the following information:

1. Company name and address.
2. Livestock coordinator or contact that livestock exporter should call to initiate a charter.
3. Number and type of aircraft available for livestock carriage.
4. International trade routes frequently flown carrying livestock.*
5. Specialized equipment and services offered to livestock exporters.

The airlines are grouped by their operating authority as granted by the Civil Aeronautics Board (CAB) and/or the Federal Aviation Administration (FAA).

*Such flights can be negotiated to originate at almost any U.S. airport for almost any destination pending approval of such routes by various government agencies. For more information one may contact the cargo manager of the particular airline.

AIR CARRIER LISTING BY OPERATING AUTHORITY

Certificated Air Carriers (U.S.):

Evergreen International Airlines (p. 8)
Fast Air Carrier (p. 9)
Flying Tiger Line (p. 9)
Northeastern International Airways (p. 10)
Northwest Orient Airlines (p. 10)
Rich International (p. 11)
TransAmerica Airlines (p. 11)

Section 402 Carriers (Foreign):

AECA Airlines (p. 12)	British Caledonian Airways (p. 18)
AER (p. 13)	Cargo Transport Leasing (p. 18)
Aeronaves Del Peru (p. 13)	Caribbean Air Cargo (p. 19)
Air Canada (p. 14)	Ecuadoriana Airlines (p. 19)
Air Cargo International (p. 14)	Faucett (p. 20)
Air Cargo Support (p. 15)	Global International Airways (p. 20)
Air Jamaica (p. 15)	Inair (p. 21)
Andes Airlines (p. 16)	Japan Air Lines (p. 21)
ARCA Airlines (p. 16)	Korean Air Lines (p. 22)
Avianca Airlines (p. 17)	LACSA (p. 22)
Aviateca (p. 17)	VIASA (p. 23)

Part 121 Carriers:

Arrow Airways (p. 24)
F. A. Conner (p. 25)
Lacsa Airlines (p. 25)

Part 125 Carriers:

Fair Air, Inc. (p. 26)
Florida Aircraft Leasing (p. 26)

AIR CARRIER LISTING BY WORLD MARKETS SERVED*

Africa:

Air Canada (p. 14)
Northeastern International Airways (p. 10)
Rich International (p. 11)
TransAmerica Airlines (p. 11)

Caribbean:

Air Canada (p. 14)	Fair Air (p. 26)
Air Cargo International (p. 14)	Florida Aircraft Leasing (p. 26)
Air Cargo Support (p. 15)	Global International Airways (p. 20)
Air Jamaica (p. 15)	Lacsa Airlines (p. 25)
Arrow Airways (p. 24)	Northeastern International Airways (p. 10)
Cargo Transport Leasing (p. 18)	Rich International (p. 11)
Caribbean Air Cargo (p. 19)	TransAmerica Airlines (p. 11)
F. A. Conner (p. 25)	

Central America, Mexico, and Panama:

AER (p. 13)
Air Canada (p. 14)
Air Cargo International (p. 14)
Air Cargo Support (p. 15)
Aviateca (p. 17)
Cargo Transport Leasing (p. 18)
Faucett (p. 20)
Fast Air Carrier (p. 9)
Inair (p. 21)
LACSA (p. 22)
Northeastern International Airways (p. 10)
Rich International (p. 11)
TransAmerica Airlines (p. 11)

Europe:

Air Canada (p. 14)
British Caledonian Airways (p. 18)
Evergreen International Airlines (p. 8)
Global International Airways (p. 20)
Northwest Orient Airways (p. 10)
Rich International (p. 11)
TransAmerica Airlines (p. 11)

Far East:

Air Canada (p. 14)
Flying Tiger Line (p. 9)
Japan Air Lines (p. 21)
Korean Air Lines (p. 22)
Rich International (p. 11)
TransAmerica Airlines (p. 11)

Middle East:

Air Canada (p. 14)
Flying Tiger Line (p. 9)
Global International Airways (p. 20)
Korean Air Lines (p. 22)
Rich International (p. 11)
TransAmerica Airlines (p. 11)

South America:

AECA Airlines (p. 12)	F. A Conner (p. 25)
AER (p. 13)	Fair Air (p. 26)
Aeronaves Del Peru (p. 13)	Faucett (p. 20)
Air Canada (p. 14)	Florida Aircraft Leasing (p. 26)
Air Cargo International (p. 14)	Global International Airways (p. 20)
Air Cargo Support (p. 15)	Inair (p. 21)
Andes Airlines (p. 16)	Northeastern International
ARCA Airlines (p. 16)	Airways (p. 10)
Arrow Airways (p. 24)	Rich International (p. 11)
Avianca Airlines (p. 17)	TransAmerica Airlines (p. 11)
Cargo Transport Leasing (p. 18)	VIASA (p. 23)
Ecuatoriana Airlines (p. 19)	

*Does not exclude other airlines which could also serve markets listed.

CERTIFICATED AIR CARRIERS

Certificated air carriers hold certificates of public convenience and necessity, issued by the Civil Aeronautics Board, authorizing them to engage in scheduled and chartered air transportation.

EVERGREEN INTERNATIONAL AIRLINES, INC.
1621 North Baker Street
McMiville, Oregon 97128
Tel: (503) 472-9361

Livestock Coordinator: Burt Hale

Number and Type of Aircraft: (3) DC-8-52 (1) DC-8-61 (1) DC-8-63
(3) DC-9-30 (6) L-188C

International Trade Service

U.S. Gateway

Seattle, WA; San Francisco,
Los Angeles, CA; Newark, NJ;
Chicago, IL; Denver, CO;
Atlanta, GA; Hawaii

Foreign Port of Import

Shannon, Ireland

Specialized Equipment and/or Services: Leased ground-support equipment.
Groom station and horse stalls are available on request.

FAST AIR CARRIER, LTD.
P.O. Box 520846
Miami, Florida 33152
Tel: (305) 591-8147
Telex: 807318
Sita: MIAGGFU

Livestock Coordinator: Gabriel Gabrielli

Number and Type of Aircraft: (1) B707/331C

International Trade Service

U.S. Gateway

Miami, FL; Jamaica, NY

Foreign Port of Import

Port of Spain, Trinidad-Tobago; Panama; Lima, Peru; Santiago, Chili; Asuncion, Paraguay; Montevideo, Uruguay; Sao Paulo, Brazil

Specialized Equipment and/or Services: Unless provided by shipper, all equipment is leased from Animal Air Service, Inc.

FLYING TIGER LINE, INC.
7401 World Way West
Los Angeles, California 90009
Tel: (213) 646-4962
Telex: 674496
Sita: HDQODFT

Livestock Coordinator: Glen Van Winkle or Ken Roe

Number and Type of Aircraft: (16) DC-8-63 (13) B747

International Trade Service

U.S. Gateway

Chicago, IL; San Francisco, CA; Moses Lake, Seattle, WA; Newburgh, NY

Foreign Port of Import

Fukuoka, Kagoshima, Nagoya, Osaka, Tokyo, Japan; Taipei, Taiwan; Seoul, Korea; Kuwait, Kuwait; Riyadh, Saudi Arabia

Specialized Equipment and/or Services: B747 and DC-8 livestock pallet containers, B747 and DC-8 disposable one-way wooden pens, DC-8 walk-on/walk-off corral system (all above items available on both single and double deck), B747 metal pens, portable livestock ramps, and portable exhaust fans. Horse stalls are available on request.

NORTHEASTERN INTERNATIONAL AIRWAYS

P.O. Box 520762
Miami, Florida 33152
Tel: (305) 945-3185
Telex: 80766

Livestock Coordinator: Director of Operations

Number and Type of Aircraft: (1) DC-7CF (1) B-707

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Caribbean, South America,
Africa, Central America

Specialized Equipment and/or Services: All standard equipment is
available.

NORTHWEST ORIENT AIRLINES

Minneapolis, St. Paul International
Airport
St. Paul, Minnesota 55111
Tel: (612) 726-2386
Telex: 29-7024

Livestock Coordinator: Cargo Sales Department

Number and Type of Aircraft: (5) 747

International Trade Service

U.S. Gateway

St. Paul, Minneapolis, MN;
Miami, FL; Jamaica, NY; Boston,
MA; Chicago, IL; Seattle, WA;
Los Angeles, San Francisco,
CA; Anchorage, AK; Honolulu,
HI

Foreign Port of Import

Europe

RICH INTERNATIONAL
5400 NW 36th Street
P.O. Box 52-2067
Miami, Florida 33152
Tel: (305) 871-5113

Livestock Coordinator: Jean Rich

Number and Type of Aircraft: (3) C-46 (4) DC-6 (3) DC-8-55

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Worldwide

Specialized Equipment and/or Services: All services relating to the movement of live animals both at origin and destination points are available.

TRANSAMERICA AIRLINES
P.O. Box 2504
Oakland International Airport
Oakland, California 94614
Tel: (415) 577-6200
Telex: 337671
Sita: OAKFFTV

Livestock Coordinator: Thomas Field, Jim Anderson, or Barry Freeman

Number and Type of Aircraft: (8) L-188 (13) L-100/30 (12) DC-8
(3) DC-10 (3) 747-200

International Trade Service

U.S. Gateway

Chicago, IL; Des Moines, IA;
Moses Lake, WA; Oakland, Stockton,
CA; Rochester, MN; New Iberia,
LA

Foreign Port of Import

Worldwide

Specialized Equipment and/or Services: Walk-on and walk-off loading system. This system accommodates large animals on single decks, small animals on double decks, or can accommodate 50 individually stalled horses.

SECTION 402 FOREIGN AIR CARRIERS

Foreign air carriers are authorized by the Civil Aeronautics Board (CAB) to operate scheduled and/or charter flights on international trade routes. These carriers are classified by the Federal Aviation Administration as Part 129 carriers after receiving their CAB permit.

AECA AIRLINES
P.O. Box 520925
Miami, Florida 33152
Tel: (305) 871-1914

Livestock Coordinator: Oscar Cebeno

Number and Type of Aircraft: (1) CL-44-D

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Quito and Guayaquil,
Ecuador

Specialized Equipment and/or Services: Ground-support equipment is available.

AER (AEROTRANSPORTES ENTRE RIOS)
Building 2129
Miami International Airport
Miami, Florida 33148
Tel: (800) 327-1206 or (305) 526-6110

Livestock Coordinator: Roberto Harte

Number and Type of Aircraft: (2) B707-321C

International Trade Service

U.S. Gateway

Houston, TX; Miami, FL;
Jamaica, NY

Foreign Port of Import

Buenos Aires, Argentina;
Brasilia, Fortaleza, Port
Alegre, Rio de Janeiro,
Recife and Sao Paulo,
Brazil; Asuncion,
Paraguay

Specialized Equipment and/or Services: Pens carrying approximately 59
800-pound animals per flight, 44 quarter horses, and 30 racing horses in
separate stalls are available. At least one livestock attendant is on
board during each flight.

AERONAVES DEL PERU, S.A.
3200 NW 67th Avenue (Bldg. 1002)
Miami, Florida 33146
Tel: (305) 526-5716
Telex: 808109

Livestock Coordinator: Peter C. Zinno

Number and Type of Aircraft: (1) DC-8 55F (1) DC-8 43F (1) DC-8 61F

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Lima, Peru

Specialized Equipment and/or Services: Stalls, pens, and use of Animal
Air Service, Inc. are available.

AIR CANADA

4333 St. Catherine St. West

Montreal, Canada H3Z1P9

Tel: (514) 874-4379 or (212) 930-8336

Telex: 06-217537

Livestock Coordinator: Canada - Doug Owen or U.S. - Jack Smith

Number and Type of Aircraft: (37) DC-9 (23) DC-8 (7) 747
(16) L-1011 (35) B727

International Trade Service

U.S. Gateway

Montreal, Toronto

Foreign Port of Import

Worldwide

Specialized Equipment and/or Services: Stalls, portable ramps, and pen system are available.

AIR CARGO INTERNATIONAL

P.O. Box 22763

Houston, Texas 77027

Tel: (713) 621-2192

Telex: 76-2679

Livestock Coordinator: L. Dreyer

Number and Type of Aircraft: (1) DC-4 (1) DC-7 (1) B-707

International Trade Service

U.S. Gateway

Houston, TX; Miami, FL

Foreign Port of Import

Caribbean; Central and South America

Specialized Equipment and/or Services: Stalls and pens are available.

AIR CARGO SUPPORT, INC.
9438 N.W. 13th Street #58
Miami, Florida 33172
Tel: (305) 591-8798

Livestock Coordinator: Michael Williams

Number and Type of Aircraft: (1) 1049 H (1) DC-4

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Caribbean; Central and
South America

Specialized Equipment and/or Services: Stalls, pens, and double-deck penning systems are provided. Maximum ventilation is assured livestock during shipment by use of unpressurized cargo.

AIR JAMAICA
444 Brickell Avenue
Miami, Florida 33131
Tel: (305) 526-5985

Livestock Coordinator: Steve Clark

Number and Type of Aircraft: (1) DC-8 (1) DC-6

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Kingston and Montego
Bay, Jamaica

Specialized Equipment and/or Services: Specialized equipment available through Animal Air Service, Inc.

ANDES AIRLINES

Building 1034

P.O. Box 52-3068

Miami International Airport

Miami, Florida 33152

Tel: (800) 327-4472 or (305) 526-6380

Telex: 515067

Livestock Coordinator: Lorenzo Novella

Number and Type of Aircraft: (2) CL-44 (1) DC-8-33

International Trade Service

U.S. Gateway

Houston, TX; Miami, FL;
New Iberia, LA

Foreign Port of Import

Caracas, Venezuela;
Guayaquil and Quito,
Equador; Sao Paulo,
Brazil

Specialized Equipment and/or Services: Leased ground-support equipment is available.

ARCA AIRLINES

P.O. Box 660485

Miami Springs, Florida 33166

Tel: (305) 526-5240

Telex: 808129

Livestock Coordinator: Alfred Pereira

Number and Type of Aircraft: (1) DC-8

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Bogota and Cali,
Colombia

Specialized Equipment and/or Services: Equipment is leased from Animal Air Service, Inc.

AVIANCA AIRLINES
4299 NW 36th Street
Miami Springs, Florida 33166
Tel: (305) 883-4290
Telex: 803514
Sita: MIADVAV

Livestock Coordinator: Eduardo Sampedro

Number and Type of Aircraft: (1) 747

International Trade Service

U.S. Gateway

Miami, FL; Los Angeles,
CA; Jamaica, NY

Foreign Port of Import

Bogota, Barranquilla, and
Cali, Colombia

Specialized Equipment and/or Services: None.

AVIATECA
P.O. Box 592496
Miami, Florida 33159
Tel: (800) 327-9833 or (305) 526-6420

Livestock Coordinator: Armando Peralta or Pedro Obando

Number and Type of Aircraft: (2) DC-6

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Guatemala City,
Guatemala

Specialized Equipment and/or Services: Stalls, pens, and containers are
available through Suarez Shipping or Animal Air Service, Inc.

BRITISH CALEDONIAN AIRWAYS LTD.
Caledonian House
Crawley, Sussex RH10 2XA
Tel: (0293) 27890 ext. 2951
Telex: 87161
Sita: LGWSNBR; LGWFZBR

Livestock Coordinator: D. S. Goodyear or V. J. Attwood

Number and Type of Aircraft: (1) B707 (8) DC-10-30

International Trade Service

U.S. Gateway

Houston, Dallas and Fort
Worth, TX; Atlanta, GA;
St. Louis, MO; Bangor, ME

Foreign Port of Import

London Gatwick - Prestwick
Scotland

Specialized Equipment and/or Services: Single-deck animal pens (125 in. X 88 in. pallet, maximum height 65 in.), 707 a/c main deck (maximum load 13 pens and 2 attendants), one a/c set, triple-place Lambourne horse stalls (104 in. X 90 in., maximum height 84 in.), 707 a/c main deck (10 stalls that will load 30 horses, plus 12 attendants), and two held a/c sets are available. All DC 10-30 flights have the capability to carry animals on lower deck. Maximum load is 2 boxes based on pallet size (88 in. L X 125 in. W pallet, maximum height 60 in.) and according to IATA live animal manual specifications. All movements are subject to prior approval by SMFF or MCTS.

CARGO TRANSPORT LEASING, INC.
5245 NW 36th Street, Suite 201
Miami, Florida 33166
Tel: (305) 888-1807
Telex: 803527 (VORTEX/MIA)

Livestock Coordinator: Marino Jaen

Number and Type of Aircraft: (1) DC-6

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Maracaibo, Venezuela;
Panama, Repub. of Panama;
Guatemala City, Guatemala;
plus many other cities in
the Carriibbean and Central
America

Specialized Equipment and/or Services: Stalls, pens, and corrals issued
by Animal Air Service, Inc.

CARIBBEAN AIR CARGO COMPANY, LTD.
P.O. Box 524185
Miami, Florida 33152
Tel: (305) 871-2680
Telex: 6811583
Sita: MIASZGR

Livestock Coordinator: Sherwin King

Number and Type of Aircraft: (1) B707-321-C

International Trade Service

U.S. Gateway

Miami, FL; Houston, TX;
Jamaica, NY

Foreign Port of Import

Bridgetown, Barbados;
Port of Spain, Trinidad-
Tobago

Specialized Equipment and/or Services: All available by Animal Air
Service, Inc.

ECUATORIANA AIRLINES
Airport Executive Tower No. 11
7270 N.W. 12th Street, Suite 400
Miami, Florida 33126
Tel: (1-800) 327-1348 or (305) 526-5875
Sita: MIAHCEU

Livestock Coordinator: Hector M. Ponte

Number and Type of Aircraft: (1) B707-321-C

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Equador

Specialized Equipment and/or Services: Leased ground-support service is
available.

FAUCETT

Miami International Airport
P.O. Box 52-2472
Miami, Florida 33152
Tel: (1-800) 327-1716
Telex: 6811568
Sita: MIASBCF

Livestock Coordinator: Louis Bailey or Jorge Espinosa

Number and Type of Aircraft: (1) B707

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

All points in Peru;
Panama City, Panama

Specialized Equipment and/or Services: Pen system and double-deck pens are available.

GLOBAL INTERNATIONAL AIRWAYS

Air World Center
10920 Ambassador Drive
Kansas City, Missouri
Tel: (816) 891-8850
Telex: 424189
Sita: MKCOWGL

Livestock Coordinator: Evelyn Peagram

Number and Type of Aircraft: (3) B707

International Trade Service

U.S. Gateway

Chicago, IL; Kansas City,
MO; Miami, FL; Houston, TX;
Lincoln, NE; Newburgh, NY;
Bangor, ME

Foreign Port of Import

Cairo, Egypt; Riyadh,
Saudi Arabia; Lagos,
Nigeria; Persian Gulf
area; Santiago, Chile;
Buenos Aires, Argentina;
Quito, Ecuador; Athens,
Greece; Madrid, Barcelona,
and Sevilla, Spain

Specialized Equipment and/or Services: Single cattle pens, portable ramps, double-deck pen systems, and specially designed fans for air and ground use are available.

INAIR (International de Aviation, S.A.)
Miami International Airport
P.O. Box 522911
Miami, Florida 33152
Tel: (800) 327-1345 or (305) 526-6870
Telex: WUI 6811376

Livestock Coordinator: Jorge Pedraza or Jorge Avias

Number and Type of Aircraft: (1) DC8-55F (2) CV-880

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Panama City, Panama;
Chetumal, Belize; Santo
Domingo, Managua,
Nicaragua; Lima, Iquitos,
Peru; San Salvador, El
Salvador; Manaus, Brazil;
Cali, Bogota, Barranquilla,
Colombia; Caracas, Maracaib
Porlamar, Venezuela; San
Juan, Puerto Rico, Curacao,
Netherlands Antilles

JAPAN AIR LINES
Suite 128, 1818 Gilbreth Road
Burlingame, California 94010
Tel: (415) 877-3250
Sita: TYOFPJL

Livestock Coordinator: Herbert Mitsuda

Number and Type of Aircraft: (1) DC8F (1) 747F

International Trade Service

U.S. Gateway

New York, NY; San
Francisco, Los Angeles,
CA

Foreign Port of Import

Tokyo and Osaka, Japan

Specialized Equipment and/or Services: Livestock crates, livestock
igloos, and triple horse stalls are available.

KOREAN AIR LINES CO., LTD.
6101 West Imperial Highway
Los Angeles, California 90045
Tel: (213) 646-9235
Telex: K27526
Sita: SELCFKE

Livestock Coordinator: Charles Williams

Number and Type of Aircraft: (2) B-747 (3) B-707

International Trade Service

U.S. Gateway

Los Angeles, CA; New
York, NY

Foreign Port of Import

Republic of Korea and
Middle East

Specialized Equipment and/or Services: Stalls, pens, containers, pallets,
and walk-on ramps are available.

LASCA (Linea Aereas Costorrienses, S.A.)
Building C 1003
P.O. Box 52-3430
Miami International Airport
Miami, Florida 33152
Tel: (800) 327-2318

Livestock Coordinator: Enrique Schmidt or Xiomara Arencibia

Number and Type of Aircraft: (1) DC8

International Trade Service

U.S. Gateway

Madison, WI; Houston, TX;
Miami, FL; Newburgh, NY

Foreign Port of Import

San Jose, Costa Rica

Specialized Equipment and/or Services: Leased ground-support service
is available.

VIASA (VENEZOLANA INTERNACIONAL de AVIACION, S.A.)
Building 1002
P.O. Box 56
Miami International Airport
Miami, Florida 33152
Tel: (305) 871-4961

Livestock Coordinator: Antonio Pinto or Jose la Torre

Number and Type of Aircraft: (1) B747

International Trade Service

U.S. Gateway

Miami, FL; Jamaica, NY

Foreign Port of Import

Caracas, Maracaibo, and
Porlamar, Venezuela

Specialized Equipment and/or Services: Stalls and various ground-support
services are available.

PART 121 CARRIERS

PART 121 carriers are governed by Federal Aviation Regulations. They are commercial operators performing for compensation, but by definition they are not common carriers.

ARROW AIRWAYS, INC.
P.O. Box 522230
GAF
Miami, Florida 33152
Tel: (305) 871-2770 or (800) 327-9836
Telex: 51876
Sita: MIA00CL

Livestock Coordinator: Albert Wells

Number and Type of Aircraft: (5) B707-320C

International Trade Service

U.S. Gateway

Miami, FL; Jamaica, NY

Foreign Port of Import

San Juan, Puerto Rico;
Port of Spain, Trinidad-
Tobago; Barquisimeto,
Venezuela

F. A. CONNOR
P.O. Box 122
Miami Springs, Florida 33166
Tel: (305) 871-4616

Livestock Coordinator: Charles Hood

Number and Type of Aircraft: (1) DC-6

International Trade Service

U.S. Gateway

Miami and Fort
Lauderdale, FL; New
Orleans, LA

Foreign Port of Import

San Juan, Puerto Rico;
Kingston, Jamaica; Port
au Prince, Haiti; Santo
Domingo, Dominican
Republic; Barranquilla,
Colombia; Curacao and
Aruba, Netherlands
Antilles; Fort de France,
Martinique; St. Martin,
Barbados

Specialized Equipment and/or Services: All equipment available.

LACSA AIRLINES
(LINEAS AEREAS COSTARRICENSES S.A.)
P.O. Box 523430
Miami, Florida 33152
Tel: (305) 871-6322 or (800) 327-2318
Sita: MIAFFLR

Livestock Coordinator: Enrique Schmidt or Carlos Azofeifa

Number and Type of Aircraft: (1) DC-8

International Trade Service

U.S. Gateway

Miami, FL; Houston, TX;
Charlotte, NC; Madison, WI;
New Orleans, LA; Los Angeles,
CA

Foreign Port of Import

San Jose, Costa Rica

Specialized Equipment and/or Services: Cattle stalls are available.

PART 125 CARRIERS

PART 125 carriers are governed by Federal Aviation Regulations. These rules cover the operation of certain large aircraft being utilized under private carriage.

FAIR AIR, INC.
8835 SW 41 Terrace
Miami, Florida 33165
Tel: (305) 592-6097

Livestock Coordinator: Vince Faix

Number and Type of Aircraft: (1) Convair 888

International Trade Service

U.S. Gateway

Miami, FL

Foreign Port of Import

Venezuela; Colombia;
Haiti; Puerto Rico

Specialized Equipment and/or Services: Leased equipment is available.

FLORIDA AIRCRAFT LEASING CORP.
P.O. Box 22460
Ft. Lauderdale, Florida 33335
Tel: (305) 525-5256
Telex: 51-4424

Livestock Coordinator: Thomas E. Boy

Number and Type of Aircraft: (1) DC-6A

International Trade Service

U.S. Gateway

Ft. Lauderdale, FL

Foreign Port of Import

Caribbean and South
America

Specialized Equipment and/or Services: Standard stalls and pens are available.

INTERNATIONAL FREIGHT FORWARDERS

The international freight forwarder is governed by the Civil Aeronautics Board and other regulatory agencies, and is engaged indirectly in international transportation in the following ways: (1) selects means of transport and organizes the transport operation, (2) works out exportation costs, (3) is responsible for the transportation of property from the point of receipt to the point of destination.

Air-Line Air-Freight Ltd.

554 N. York Road
Bensenville, Illinois 60106
Contact: Leslie Shearer
Tel: (312) 595-4515

Telex: TWX 910-256 0473
Sita: AIRLINEAIR

Alex Nichols Agency

62 Hegemans Lane
Old Brookville, New York 11545
Tel: (516) 626-9100
(800) 645-6250

Telex: 125223

Competent Shipping Corporation

One World Trade Center, Suite 2013
New York, New York 10048
Contact: William Michener, Pres.
Tel: (212) 432-1540

Telex: 12-9273

Houston Freight Forwarding

333 West Loop North, Suite 111B
Houston, Texas 77024
Contact: Eddie Mauricio, Gen. Mgr.
Tel: (713) 680-9311

Telex: 0640-450

John J. McCabe Agency, Inc.

190 Atlantic Avenue
Garden City Park, New York 11040
Contact: John J. McCabe
Tel: (516) 775-3939

J. M. Rodgers Company, Inc.
P.O. Box 216, J.F.K.
Airport Station
Jamaica, New York 11430
Tel: (212) 656-5663

Telex: 42-6159

Mersant International, Ltd.
145-40 157th Street
Jamaica, New York 11430
Contact: Joe Harder, President
 Joseph Santarelli, Jr.
Tel: (212) 656-7444

Telex: 960184

Murty Brothers Agency, Inc.
109 Plainfield Avenue
P.O. Box 427
Elmont, New York 11033
Contact: Robert D. Murty
Tel: (212) 343-3393

Telex: 960115

Paulssen & Guice, Ltd.
15 Park Row
New York, New York 10038
Contact: Eduardo Gonzalez, Vice Pres.
Tel: (212) 349-6910

Telex: 223-222

Pegasus Air Transport, Inc.
167-10 South Conduit venue
Jamaica, New York 11434
Contact: John Shortell
Tel: (212) 656-6260

Telex: 425590

CHARTER BROKERS

Charter brokers provide services like air freight forwarders, but they handle only full planeload charters. They do not consolidate small lots and are not governed by the Civil Aeronautics Board.

Air Cargo Associates, Inc.
21 East 40th Street
New York, New York 10016
Contact: Jim Mueller, Gen. Mgr.
Tel: (212) 696-5770

Telex: 126222 or
62962

Alex Nichols Agency
62 Hegemans Lane
Old Brookville, New York 11545
Tel: (516) 626-9100
(800) 645-6250

Telex: 125223

Atlantic Container Lines
80 Pine Street
New York, New York 10005
Contact: J. Wilson, Manager
Tel: (212) 908-2000

Avigo International, Inc.
148-118 New York Boulevard
Jamaica, New York 11434
Contact: Eduardo Gonzalez, President
Tel: (212) 656-7017

Corbett International, Inc.
30 Vessey Street
New York, New York 10007
Contact: Francis L. Kunz, President
Tel: (212) 349-4630

Telex: 12-5376

F. H. Fenderson, Inc.

Bangor International Airport
P.O. Box 614
Bangor, Maine 04401
Contact: Robert F. Fenderson
Tel: (207) 942-6332

Telex: 94-4312

Two Americas Trading Company

1020 Manhattan Beach Boulevard
Suite 104
Manhattan Beach, California 90266
Contact: Dee Cross, President or
Allen Peter Gen. Mgr.
Tel: (213) 546-3381

Telex: 673114

Sita: CHTRBKRSNBCH

OCEAN CARRIERS

For many years, exports of dairy and beef breeding livestock have been handled by ocean transportation. Although ports designated for animal loading and ocean carriers with animal carrying capability are limited, there is an apparent role for ocean shipping. The following list names the ocean carriers capable of handling both full and partial shipments of livestock.

Full Charters

C. C. CLAUSEN STEAMSHIP COMPANY, LTD
P.O. Box 69
DK. 6300
Graasten, Denmark
Telex: JOELXWSH

Contact: Claude E. Dobbins
North American, Manager
2020 K Street, N.W., Suite 435
Washington, D.C. 20006
Tel: (202) 223-3600

World Markets Served: Worldwide

CIE DENS-OCEAN
Vlotdok Westkaai #2
8400 Oostende, Belgium
Telex: 18153, 18181
Tel: 708.06, 832.34, 836.31

Contact: E. Bovit, Administrator

World Markets Served: Worldwide

SAGUS MARINE CORPORATION
One State Street Plaza
New York, New York 10004
Telex: 129197
Tel: (212) 943-1515

Contact: Gerard H. Potier, Vice President

World Markets Served: Worldwide

MITSI OSK LINES
50 California Street
San Francisco, California 94111
Tel: (415) 982-8350

Contact: Larry Simpson

World Markets Served: Far East

NAVIERAS DE PUERTO RICO
P.O. Box 1910
Elizabeth, New Jersey 07207
Tel: (201) 352-2700

Contact: J. David Schardien

World Markets Served: Caribbean and South America

EXPORT ANIMAL INSPECTION FACILITIES

In shipping animals to foreign countries, the primary considerations are their efficient and economical care, welfare, and safety. The export animal inspection facilities listed below are necessary for the assembling, handling, inspecting, and loading of livestock onto aircraft and ocean vessels for shipment to foreign destinations.

In general, the facilities provide for trucking all species of livestock to the facility; weighing them upon receipt or before shipment; moving the livestock to holding pens; feeding, watering, and resting the animals; moving them through an inspection chute for individual inspection or testing; returning the animals back to holding pens; and finally, moving the livestock onto the aircraft or ship for transportation abroad.

This section describes the APHIS-approved export facilities closest to the most widely used U.S. export gateways.

CALIFORNIA

<u>Facility:</u>	COW PALACE No. 1-A District Agricultural Assoc. P.O. Box 34206 San Francisco, California 94134
<u>Operator:</u>	Darrel Chapman Tel: (415) 469-6000
<u>Capacity:</u>	<u>Number and Size of Stalls</u> 60 pens 5ft. X 12ft. 60 pens 10ft. X 12ft. 11 pens 16ft. X 30ft. 80 pens 30ft. X 30ft. 83 pens 8ft. X 8ft.
<u>Other Equipment:</u>	Scales, cattle ties, stockyard, hog barn with 400 fixed pens, 250 pens for sheep, and seventy 30ft. X 30ft. covered pens.
<u>Facility:</u>	HEMET FLYING SERVICE Stockton Metropolitan Airport 5500 Sikorsky Avenue Stockton, California 95206
<u>Operator:</u>	Kenneth Livingston Tel: (209) 982-1676
<u>Capacity:</u>	<u>Number and Size of Stalls</u> 2 stalls 8ft. X 12ft. 5 pens 55ft. X 110ft.
<u>Other Equipment:</u>	Aircraft ramp

CALIFORNIA

Facility: STIEFEL BROTHERS LIVESTOCK
14380 So. Euclid Avenue
Chino, California 91701

Operator: Sam H. Stiefel
Tel: (714) 597-1756

Distance from facility to port: Airport - 60 miles (Los Angeles)
8 miles (Ontario)
Seaport - 50 miles

Capacity: Number and Size of Stalls
32 12ft. X 12ft.

Number and Size of Pens
8 150ft. X 200ft.
4 100ft. X 75ft.

Other Equipment: Scales, inspection office, laboratory.
Twenty-four-hour service upon request.

Facility: JET PETS, INC. (Limited to horses only)
9014 Pershing Drive
Playa del Ray, California 90291

Operator: Frank Hasenhauer
Tel: (213) 823-8901

Distance from facility to port: Airport - On Site
Seaport - 20 miles

Capacity: Number and Size of Stalls
56 10ft. X 12ft.

Other Equipment: Scale and inspection office.

FLORIDA

Facility: USDA IMPORT EXPORT CENTER
ANIMAL QUARANTINE STATION
6300 NW 36 Street
P.O. Box 52-3054
Miami, Florida 33152

Operator: Dr. Thelton W. McCorkle
Tel: (305) 526-2828

Distance from facility to port: Airport - On site
Seaport - 7 miles

Capacity: Number and Size of Stalls
23 12ft. X 12 ft.

Number and Size of Pens
10 20ft. X 47ft.

Other Equipment: Scales, inspection office, electrically
operated hydraulic aircraft ramp that moves
to landing apron on a track. Reservations
must be made 24 hours prior to departure by
the airlines only on a first come, first
served basis.

Facility: TAMPA PORT AUTHORITY
2703 E. 17th Avenue
Tampa, Florida 33605

Operator: Manuel Lopez
Tel: (813) 248-3189

Distance from facility to port: At sea terminal

Capacity: Number and Size of Pens
8 1500 to 5625 square feet

Other Equipment: Boat Ramp

ILLINOIS

Facility: C and R MIDWEST QUARANTINE FACILITIES, LTD.
Box 470
Dundee, Illinois 60118

Operator: Cliff and Randy Lathrop
Tel: (312) 426-5009

Distance from Facility to Port: Airport - 31 miles (O'Hare)

Capacity: Number and Size of Stalls
5 12ft. X 12 ft.

Number and Size of Pens
2 30ft. X 10ft.
3 60ft. X 33ft.
1 120ft. X 30ft.
1 80ft. X 35ft.

Other Equipment: Truck scales 8 miles away in
Elgin, Ill., inspection office.

KENTUCKY

Facility: NEWTON PEDDOCKS BARN NO. 8
Newton Pike (Limited to horses only)
Lexington, Kentucky 40511

Operator: Theodore B. Bates
Tel: Office: (606) 278-0506
Barn: (606) 253-3456

Distance from facility to port: Airport - 70 miles

Capacity: Number and Size of Stalls

Other Equipment: Inspection office.

LOUISIANA

Facility: ACADIANA REGIONAL AIRPORT
Star Route B
Box 390-H (ARA)
New Iberia, Louisiana 70560

Operator: Rock H. Lasserre, Jr., Director
Tel: (318) 365-7204; if no answer,
365-7207 or 232-8797

Distance from Facility to Port: Airport - On site

Capacity: Number and Size of Stalls
12 10.7ft. X 12.7ft.

Number and Size of Pens
10 15.2ft. X 18.7ft. (inside)
10 18.7ft. X 29.5ft. (outside)

Other Equipment: 20,000-pound capacity scale,
25ft. X 25ft. inspection office,
8ft. X 13ft. laboratory, hydraulically
operated aircraft ramp, direct
facility to aircraft.

MINNESOTA

Facility: AMERICAN LIVESTOCK EXPORT COMPANY
25789 Northfield Boulevard
Hampton, Minnesota 55031

Operator: Neil W. Peterson
Tel: (612) 831-3873

Distance from facility to port: Airport - 30 miles

Capacity: Number and Size of Stalls
2 50ft. X 30ft.
2 50ft. X 11ft.
3 25ft. X 20ft.
1 35ft. X 30ft.
1 35ft. X 11ft.

Other Equipment: Inspection office and aircraft ramp,
with the airlines supplying loading
equipment.

NEW YORK

Facility: ASPCA ANIMAL PORT
Air Cargo Center, Bldg. 189
Kennedy International Airport
Jamaica, New York 11430

Operator: Tel: 0 (212) 656-6042

Distance from Facility to Port: At air terminal

Capacity: Number and Size of Pens
12 10ft. X 12ft.

Other Equipment: Inspection office.

Facility: STEWART AIRPORT
METROPOLITAN TRANSPORTATION AUTHORITY
Newburgh, New York 12550

Operator: Warren Wigsten
Wigsten Road
Pleasant Valley
New York, New York 12569
Tel: (914) 635-8161 or 564-7200

Distance from facility to port: Airport - on site

Capacity: Number and Size of Stalls
1 20ft. X 31ft.
1 14ft. X 14ft.
4 80ft. X 31ft.
4 40ft. X 31ft.
1 60ft. X 31ft.
1 30ft. X 31ft.

Other Equipment: Scales, inspection office shared
with U.S. Customs, aircraft ramp.

OREGON

Facility: NORTHWEST QUARANTINE STATION
P.O. Box 17905
Portland, Oregon 97217

Operator: Jerry Strasheim
Tel: (503) 289-8876

Capacity: Number and Size of Pens
4 35ft. X 70ft.

PENNSYLVANIA

Facility: PENNSYLVANIA HOLSTEIN ASSOCIATION
R.D. 1
Middletown, Pennsylvania 17057
Tel: (717) 944-1374

Operator: William C. Nichol
Pennsylvania Holstein Association
839 Bennes Pike
State College, Pennsylvania 16801
Tel: (814) 234-0364

Distance from facility to port: Airport - 2 miles (Harrisburg)

Capacity: Number and Size of Stalls
Portable equipment for stalls available.

Other Equipment: Inspection chute and loading ramp.
Trucking to airport is provided.

PUERTO RICO

Facility: EL COMMANDANTE RACE TRACK
(Limited to horses only)
P.O. Box 1304
Rio Piedras, Puerto Rico 00928

Operator: Mr. Irvin M. Trass
Tel: (809) 724-6060

Distance from Facility to Port: Airport - 5 miles
Seaport - 8 miles

Capacity: Number and Size of Pens
1198 10ft. X 11ft.

Other Equipment: Scales, track veterinarian's office
and laboratory, aircraft ramp.

TEXAS

Facility: TEXAS DEPARTMENT OF AGRICULTURE
Livestock Export Facility
International Airport
Brownsville, Texas 78250

Operator: Ed James
Tel: (512) 546-5135

Distance from facility to port: Airport - on site
Seaport - 2 miles

Capacity: Number and Size of Stalls
3 120 square ft.

Number and Size of Pens
9 750 square ft.

Other Equipment: Scales, dip, inspection office,
laboratory, and aircraft ramp.

TEXAS

Facility: TEXAS DEPARTMENT OF AGRICULTURE
Export Facility
18850 Colonel Fischer Boulevard
Houston, Texas 77205

Operator: Henry Foresman, Jr.
Tel: (713) 443-2447

Distance from Facility to Port: Airport - on site
Seaport - 24 miles (Houston)

Capacity: Number and Size of Stalls
2 13ft. X 10ft.
2 11ft. X 11ft.
2 49ft. X 25ft.
2 20ft. X 18.6ft.
1 23ft. X 14.6ft.
1 23ft. X 24.6ft.
1 10ft. X 24ft.
1 10ft. X 187ft.
2 10ft. X 12.6ft.
1 20ft. X 20ft.

Other Equipment: Scales, dip, inspection office,
laboratory, aircraft ramp.

VIRGINIA

Facility: DEEPWATER EXPORT FACILITY
Deepwater Terminal
Richmond, Virginia 23219
Tel: (804) 359-4433

Operator: American Marketing Services, Inc., Int'l
1301 Hermitage Road
P.O. Box 5670
Richmond, Virginia 23220

Distance from facility to port: Airport - 12 miles
Seaport - on site

Capacity: Number and Size of Pens
3 120 square ft.

Other Equipment: Inspection office, laboratory, and
aircraft ramp.

WASHINGTON

Facility: S & W EXPORT, LTD.
Sea-Tac International Airport
Seattle, Washington 98188

Operator: Dorothy Topness, Manager
1152 Industry Drive
Tukwila, Washington 98188
Tel: (206) 575-9369 Telex: 32-0135

Capacity: Number and Size of Pens
6 42ft. X 40ft.

Other Equipment: Scales, aircraft ramp.

Facility: PORT OF MOSES LAKE
Grant County Airport
Terminal Building
Moses Lake, Washington 98837

Operator: David M. Bailey
Tel: (509) 762-5363

Distance from facility to port: Airport - on site
Seaport - 2 miles

Capacity: Number and Size of Pens
6 12,000 square ft. total

Other Equipment: Scales, inspection office, and
portable ramp.

APPENDIXES

APPENDIX I

AIRCRAFT AREAS AND PAYLOADS

<u>Aircraft</u>	Floor Area		Average Payload	
	<u>Sq. Ft.</u>	<u>Sq. Meters</u>	<u>lbs.</u>	<u>Kg.</u>
B707-300	1143	106.18	75,600	34,019
B707-320	1143	106.18	73,000	33,112
B707-323	1143	106.18	89,500	40,597
B727	980	91.05	40,000	18,144
B737	687	63.8	32,000	14,515
B-747F	3529	327.9	200,000	90,718
DC-6*	--	--	25,500	11,567
DC-8-43	993	92.25	40,000	18,144
DC-8-55F	993	92.25	85,000	38,555
DC-8-63F	1375	127.74	100,000	45,359
DC-9-80	965	89.65	40,203	18,236
DC-10-30CF	1980	898	155,825	70,682
C-46*	--	--	13,000	5,897
CL-44*	--	--	60,000	27,216
L-100-30	563	52.30	50,000	22,680
L-188*	--	--	34,500	15,649

* Old aircraft; not covered in current literature.

Source: Manufacturers' literature and Jane's All the World's Aircraft 1978-79,
 Edited by J. W. R. Taylor, Jane's Yearbooks, London.

APPENDIX II

Livestock Loading Summary

The following charts are designed to give the user of this directory an idea of the capabilities of the most widely used aircraft in livestock transportation. All figures are averages based on actual movements which have taken place and will vary somewhat with length of trip, temperature, and operating conditions.

DC-8-63F

	<u>Number*</u>		<u>Weight</u>	<u>Total Weight</u>
	Maximum number of animals		(lbs.)	(lbs.)
	by: <u>Area</u>	or <u>Weight**</u>		
Horses***	39	90	1100	42,900
Cows	119	125	800	95,200
Calves	732 (2 deck)	769	130	95,234
Hogs	540 (2 deck)	400	250	100,000
Sheep	732 (2 deck)	769	130	95,160

Floor area - 1375 square feet

Maximum payload - 100,000 pounds

DC-10-30CF

	<u>Number*</u>		<u>Weight</u>	<u>Total Weight</u>
	Maximum number of animals		(lbs.)	(lbs.)
	by: <u>Area</u>	or <u>Weight**</u>		
Horses***	90	129	1200	108,000
Cows	161	177	880	142,560
Calves	527/1054	1198	130	113,360
Hogs	398/778	632	250	134,000
Sheep	527/1054	1198	130	113,360

Floor area - 1980 square feet

Maximum payload - 155,825 pounds

Boeing 747F

	<u>Number*</u>		<u>Weight</u>	<u>Total Weight</u>
	Maximum number of animals		(lbs.)	(lbs.)
	by: <u>Area</u>	or <u>Weight**</u>		
Horses***	87	166	1200	100,800
Cows	210	250	800	134,400
Calves	428/856	666	300	218,400
(one/two deck)				
Sheep	633/1326	666	120	168,000
(one/two deck)				

Floor area - 3529 square feet Maximum payload - 200,000 pounds
83.33 square feet/96" x 125" pallet
29 pallet positions

Boeing 707

	<u>Number*</u>		<u>Weight</u>	<u>Total Weight</u>
	Maximum number of animals		(lbs.)	(lbs.)
	by: <u>Area</u>	or <u>Weight**</u>		
Horses***	39	81	1100	25,400
Cows	85	89	1000	77,000
Calves	190/380	255	350	68,200
(one/two tier)				
Hogs	234/468	358	250	51,000
(one/two tier)				
Sheep	355/710	895	100	33,500
(one/two tier)				

Floor area - 1143 square feet Maximum payload - 89,500 pounds
13 pallets 125 in. X 88 in. (76.4 ft. 2)

* Select lowest number from either area or weight.

** Require special compartments with stalls (three per pallet).

*** Areas per animal were calculated using equation 4 from appendix III.

Sources: McDonald Douglas, Boeing Company, Trans International Airlines and the table in appendix III.

APPENDIX III

Recommended Floor Area Allowed for Animals Transported by Air, Sea, Truck, or Rail 1/

Animal Weight		Shipment of less than 72 hours		Shipment of four or less animals over 72 hours 2/		Shipment of four or more animals over 72 hours 2/	
kg	lb	m 3/	ft 4/	m 5/	ft 6/	m 7/	ft 8/
50	110	0.3240	3.5319	0.5438	5.8679	0.4065	4.4360
75	165	0.3790	4.1424	0.6388	6.8964	0.4965	5.4205
100	220	0.4340	4.7529	0.7338	7.9249	0.5865	6.4050
125	275	0.4890	5.3634	0.8288	8.9534	0.6765	7.3895
150	330	0.5440	5.9739	0.9238	9.9819	0.7665	8.3740
175	385	0.5990	6.5844	1.0188	11.0104	0.8565	9.3585
200	440	0.6540	7.1949	1.1138	12.0389	0.9465	10.3430
225	495	0.7090	7.8054	1.2088	13.0674	1.0365	11.3275
250	550	0.7640	8.4159	1.3038	14.0959	1.1265	12.3120
275	605	0.8190	9.0264	1.3988	15.1244	1.2165	13.2965
300	660	0.8740	9.6369	1.4938	16.1529	1.3065	14.2810
325	715	0.9649	10.6649	1.6053	17.3024	1.3600	14.8454
350	770	1.0124	11.1984	1.6978	18.3034	1.4175	15.4834
375	825	1.0599	11.7319	1.7903	19.3044	1.4750	16.1214
400	880	1.1074	12.2654	1.8828	20.3054	1.5325	16.7594
425	935	1.1549	12.7989	1.9753	21.3064	1.5900	17.3974
450	990	1.2024	13.3324	2.0678	22.3074	1.6475	18.0354
475	1045	1.2499	13.8659	2.1603	23.3084	1.7050	18.6734

Animal Weight		Shipment of less than 72 hours		Shipment of four or less animals over 72 hours <u>2/</u>		Shipment of four or more animals over 72 hours <u>2/</u>	
kg	lb	m <u>3/</u>	ft <u>4/</u>	m <u>5/</u>	ft <u>6/</u>	m <u>7/</u>	ft <u>8/</u>
500	1100	1.2974	14.3994	2.2528	24.3094	1.7625	19.3114
525	1155	1.3449	14.9329	2.3453	25.3104	1.8200	19.9494
550	1210	1.3924	15.4664	2.4378	26.3114	1.8775	20.5874
575	1265	1.4399	15.9999	2.5303	27.3124	1.9350	21.2254
600	1320	1.4874	16.5334	2.6228	28.3134	1.9925	21.8634
625	1375	1.5349	17.0669	2.7153	29.3144	2.0500	22.5014
650	1430	1.5824	17.6004	2.8078	30.3154	2.1075	23.1394
675	1485	1.6299	18.1339	2.9003	31.3164	2.1650	23.7774
700	1540	1.6774	18.6674	2.9928	32.3174	2.2225	24.4154
725	1595	1.7249	19.2009	3.0853	33.3184	2.2800	25.0534
750	1650	1.7724	19.7344	3.1778	34.3194	2.3375	25.6914
775	1705	1.8199	20.2679	3.2703	35.3204	2.3950	26.3294
800	1760	1.8674	20.8014	3.3628	36.3214	2.4525	26.9674
825	1815	1.9149	21.3349	3.4553	37.3224	2.5100	27.6054

- 1/ Maximum recommended lot sizes: (1) 40 animals up to 317.5 kg (700 lb) and (2) 20 animals over 317.5 kg (700 lb). The areas listed for less than 72 hours are recommended for rail or air shipments.
- 2/ The area for four or five animals is approximately equal, thereby giving the shipper a choice when the pen and animal sizes meet these floor area guidelines.
- 3/ Area for 50 to 300 kg derived from equation, $m = 0.0022 (kg) + 0.2140$; for 325 to 825 kg, $m = 0.0019 (kg) + 0.3474$.
- 4/ Area for 110 to 660 lb derived from equation, $ft = 0.0111 (lb) + 2.3109$; for 715 to 1815 lb, $ft = 0.0097 (lb) + 3.7294$.
- 5/ Area for 50 to 300 kg derived from equation, $m = 0.0038 (kg) + 0.3538$; for 325 to 825 kg, $m = 0.0037 (kg) + 0.4028$.
- 6/ Area for 110 to 660 lb derived from equation, $ft = 0.0187 (lb) + 3.8109$; for 715 to 1815 lb, $ft = 0.0182 (lb) + 4.2894$.
- 7/ Area for 50 to 300 kg derived from equation, $m = 0.0036 (kg) + 0.2265$; for 325 to 825 kg, $m = 0.0023 (kg) + 0.6125$.
- 8/ Area for 110 to 660 lb derived from equation, $ft = 0.0179 (lb) + 2.4670$; for 715 to 1815 lb, $ft = 0.0116 (lb) + 6.5514$.

APPENDIX IV

Other References Available to Aid in the International Transportation of Livestock

1. Food and Agricultural Export Directory 1982 (FAS M-201)

This directory describes the help available to exporters and potential exporters of U.S. agricultural products. It lists sources of export services and information, both public and private.

Single copies are available on request from the Export Trade Services Division, State/Trade Coordination Branch, Foreign Agricultural Service, U.S. Department of Agriculture, Room 4945 - South Building, Washington, D.C., 20250. Telephone: (202) 447-2423.

2. Guide of U.S. Cattle Exporters (Agriculture Handbook No. 217)

This publication incorporates the latest available veterinary import and export regulations of 72 countries plus other information concerning the marketing of livestock.

Single copies are available on request from the Foreign Agricultural Service, Publications Division, U.S. Department of Agriculture, Room 5918 - South Building, Washington, D.C., 20250.
Telephone: (202) 447-7937.

APPENDIX V

Animal Air Transportation Association

This association was organized in response to the concerns of industry leaders, Government officials, and humane association representatives over the technical and humane problems surrounding animal air shipments. AATA is a forum for people and organizations involved in transport of animals and related services. It is a clearinghouse of information and ideas, and a means for making research needs known and for disseminating research findings.

For more information about the organization, write:

Animal Air Transportation Association
6180 S. W. 56 Court
Davie, Florida 33314



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**Office of Transportation
U.S. Department of Agriculture**



R0001 221196

The Office of Transportation was established in 1978 to provide an emphasis and focus within the U.S. Department of Agriculture on the Department's agricultural and food transportation activities and to increase the Department's effectiveness in providing transportation support for agriculture. The Office assists farmers, agri-business and transportation firms, exporters, domestic food processors, wholesalers and retailers to expedite the movement of farm commodities, imports, and products by approaching complex agricultural and rural transportation problems with the combined perspectives and talents of the transportation economist and engineer, the traffic manager, and rural development and export marketing specialists. It provides one-on-one information and technical assistance, in addition to transportation and economic research studies, at the request of associations of producers, shippers and others with a major interest in improving the agricultural transportation system.